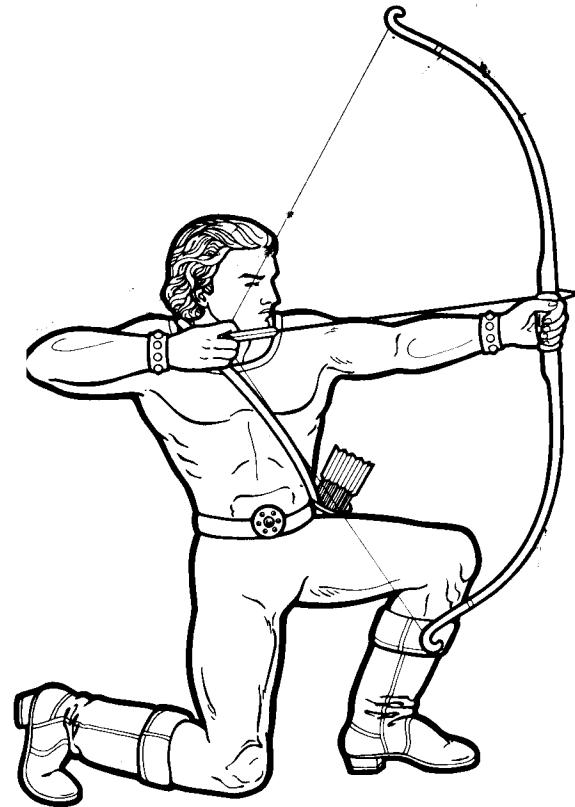


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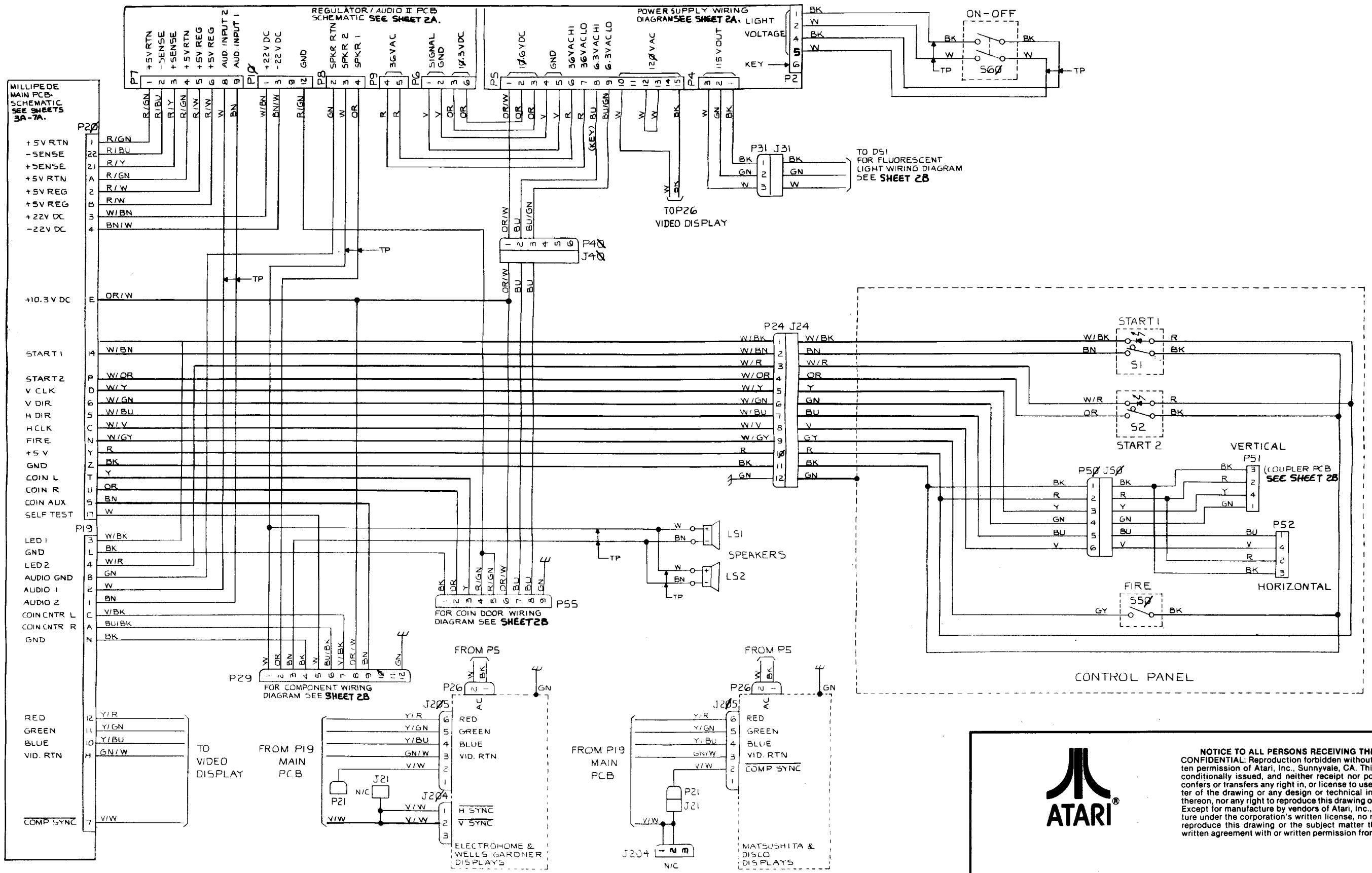
NOTE
This staple temporarily holds the schematic package together.
Remove the staple before using these schematics.



Schematic Package Supplement to

ATARI®
millipede™

**Operation, Maintenance,
and Service Manual**

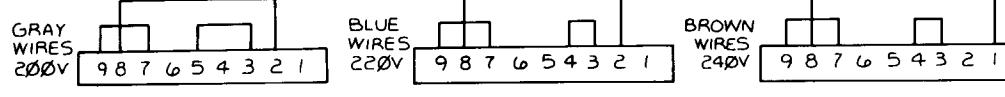
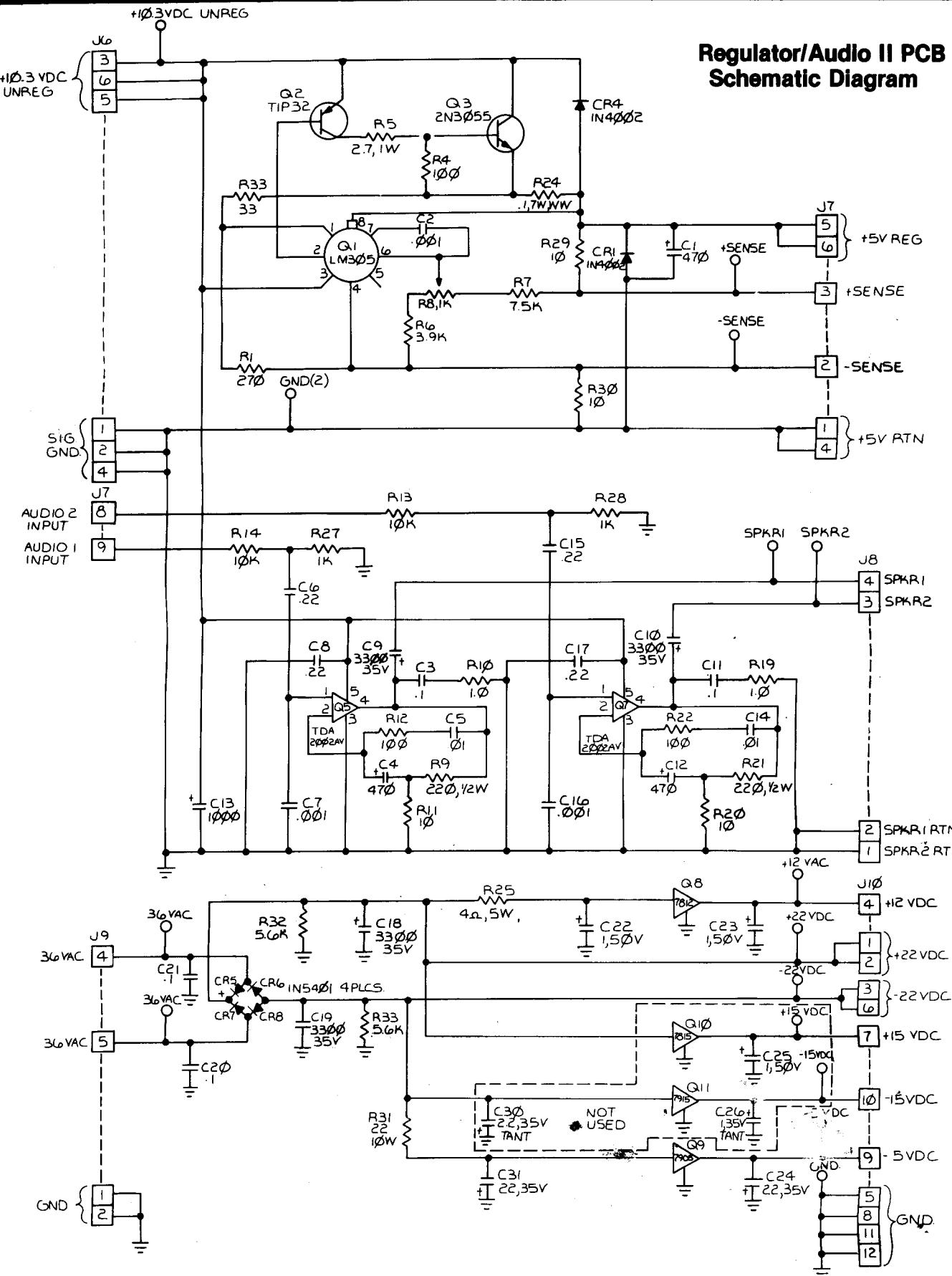


Millipede™ Main Wiring Diagram

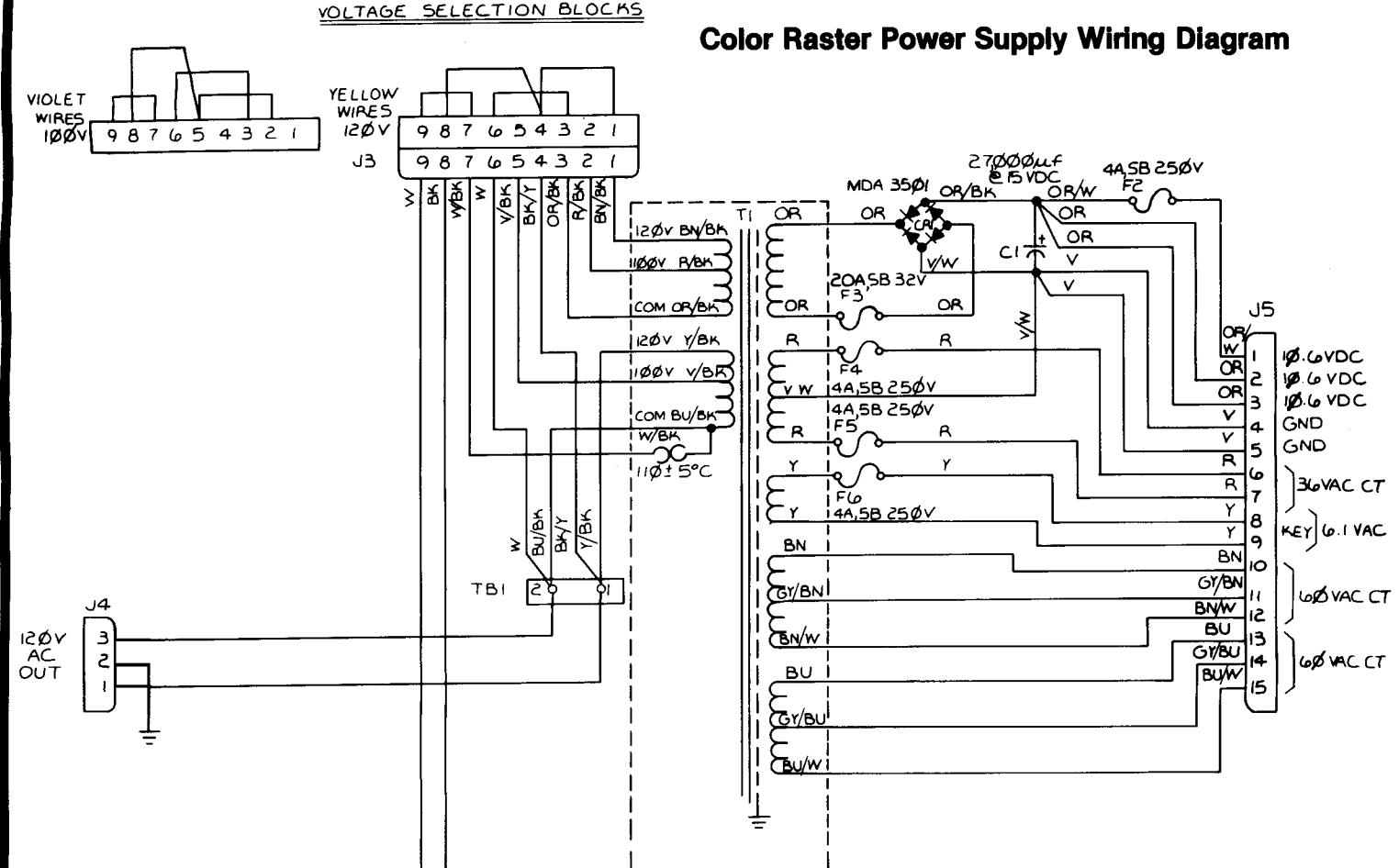
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**Regulator/Audio II PCB
Schematic Diagram**

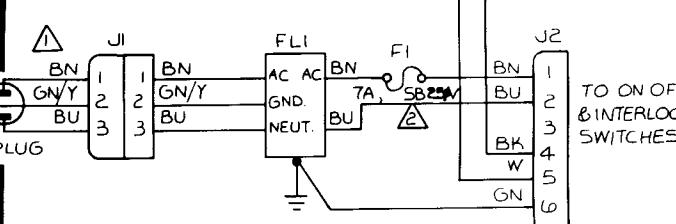


Color Raster Power Supply Wiring Diagram



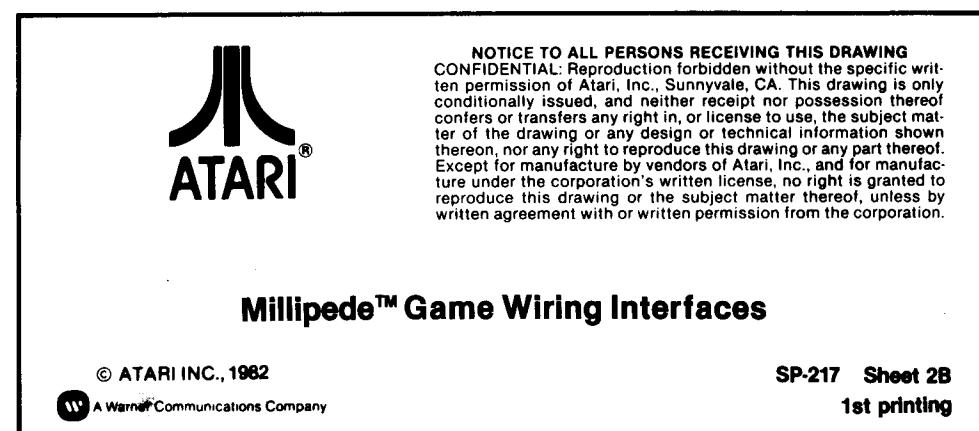
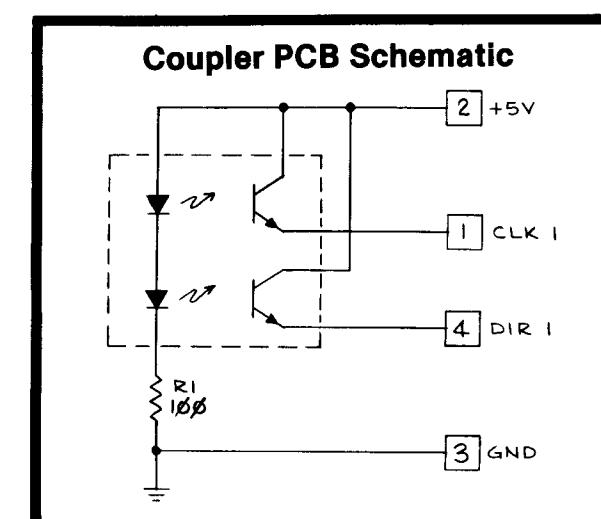
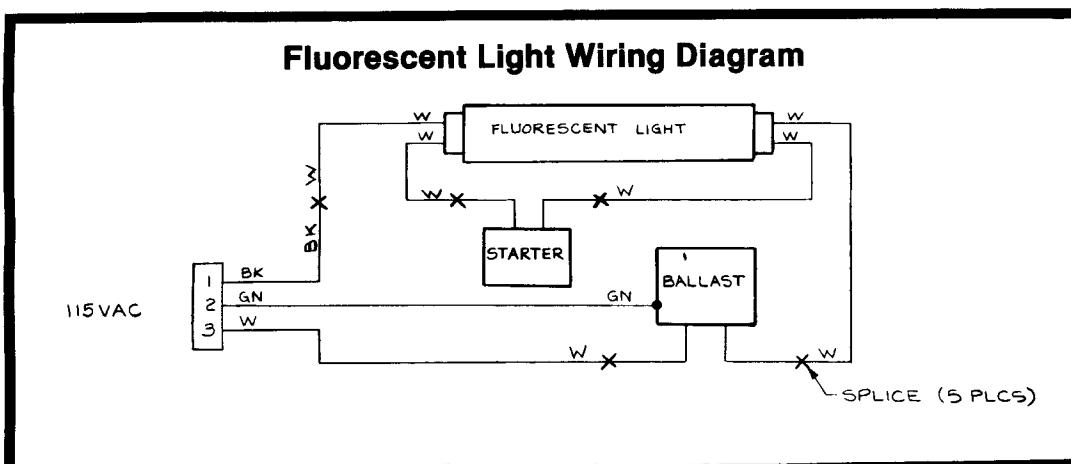
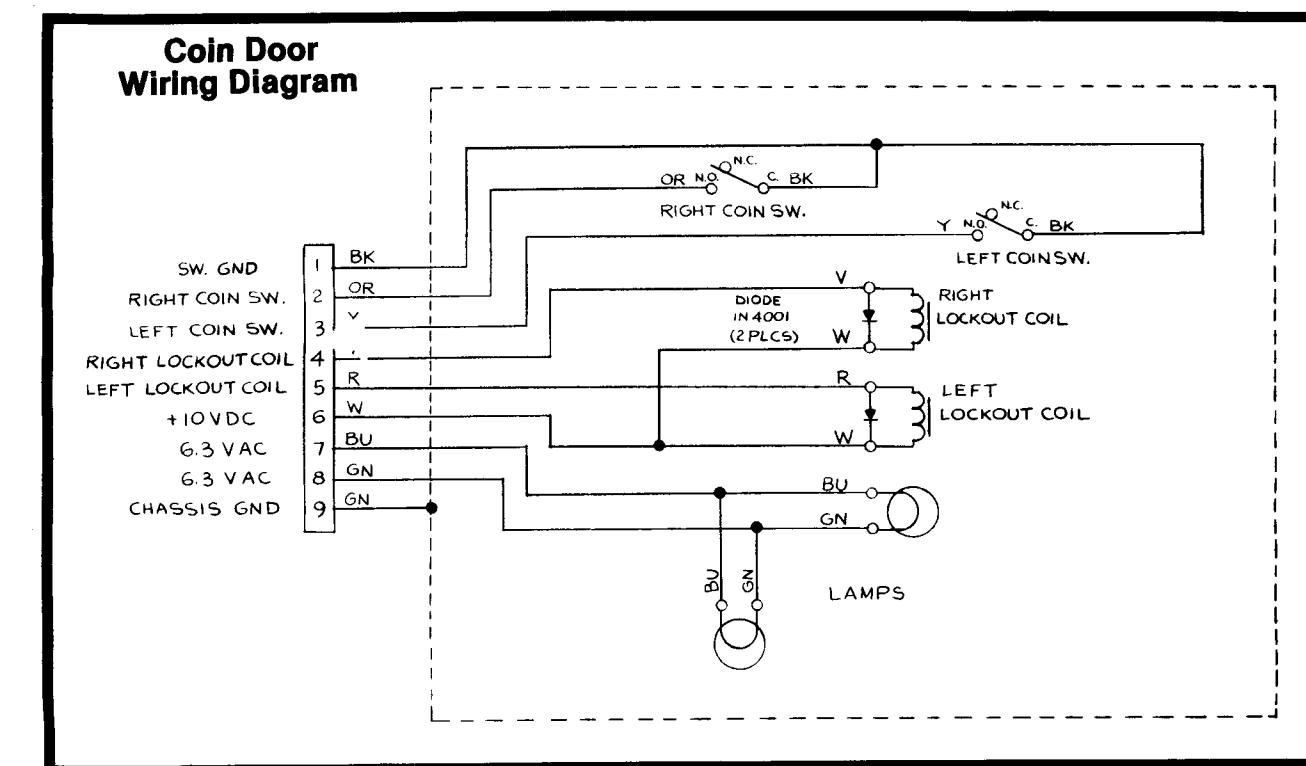
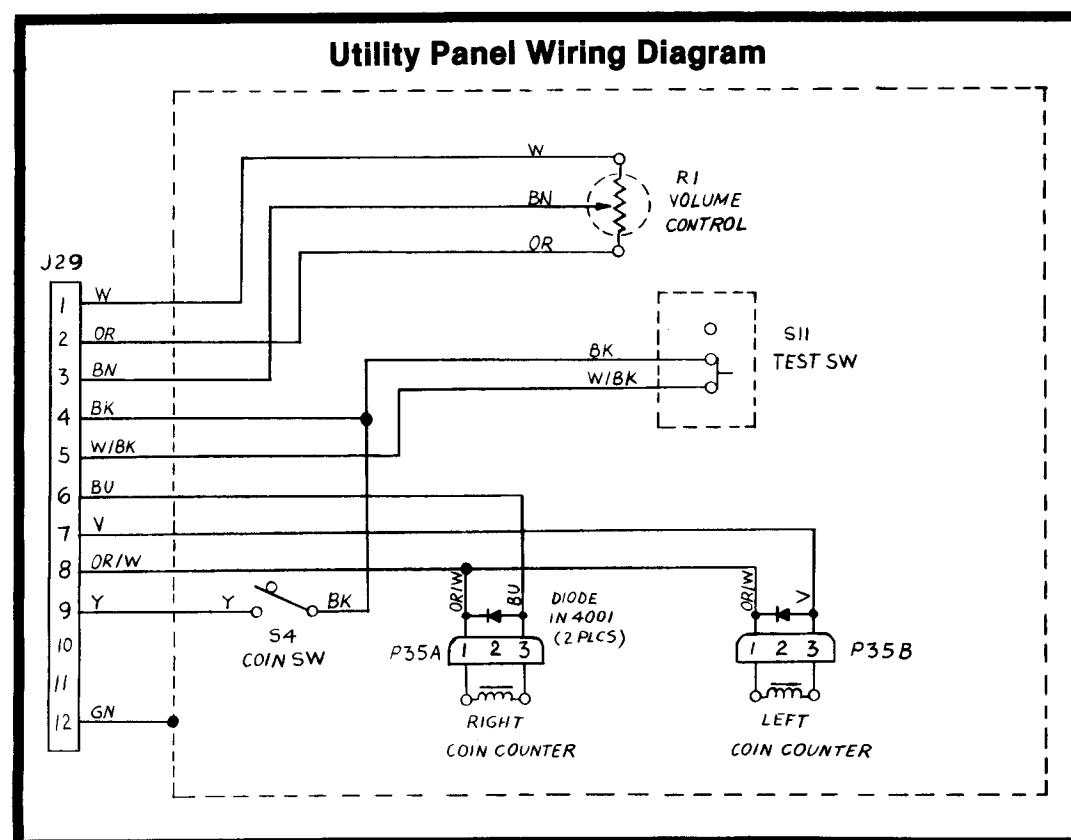
NOTES:

- POWER CORD ASSY MAY HAVE WIRE COLORS AS SHOWN OR WIRE COLORS AS FOLLOWS: ONE BLACK WIRE(AC), ONE GREEN WIRE GND AND ONE WHITE WIRE (NEUTRAL).
- USE 4AMP, SB 250V FUSE AT F1 WITH 220V & 240V (EUROPEAN ONLY)



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**Millipede™ Reg./Audio II PCB
and Power Supply Diagrams**



MEMORY MAP

HEXA-DECIMAL ADDRESS	ADDRESS BUS SIGNAL LINES												R/W	DATA BUS SIGNAL LINES								FUNCTION		
	A14	A13	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1	A0	D7	D6	D5	D4	D3	D2	D1	D0	
0000-03FF	0	0	0	0	0	A	A	A	A	A	A	A	A	A		D	D	D	D	D	D	D	D	RAM
0400-0410	0	0	0	0	1											D	D	D	D	D	D	D	D	^{I/O} S0
0408	0	0	0	0	1											R	D	D	D	D	D	D	D	OPTION SWITCH 0
0800-0810	0	0	0	1	0											R	D	D	D	D	D	D	D	^{I/O} S1
0808	0	0	0	1	0											R	D	D	D	D	D	D	D	OPTION SWITCH 1
1000-13BF	0	0	1			A	A	A	A	A	A	A	A	A			D	D	D	D	D	D	D	PLAYFIELD RAM
13C0-13CF	0	0	1			1	1	1	1	0	0	A	A	A	A		D	D	D	D	D	D	D	MOTION OBJECT PICTURE
13D0-13DF	0	0	1			1	1	1	1	0	1	A	A	A	A		D	D	D	D	D	D	D	MOTION OBJECT VERTICAL
13E0-13EF	0	0	1			1	1	1	1	1	0	A	A	A	A		D	D	D	D	D	D	D	MOTION OBJECT HORIZONTAL
13F0-13FF	0	0	1			1	1	1	1	1	1	A	A	A	A		D	D	D	D	D	D	D	MOTION OBJECT COLOR
2000	0	1	0	0	0				0	0							D	D	D	D	D	D	D	TRACKBALL HORIZ DIR VBLANK START 1 SWITCH FIRE 1 SWITCH TRACKBALL HORIZ COUNT OPTION SWITCH 2
2001	0	1	0	0	0				0	0							D	D	D	D	D	D	D	TRACKBALL VERT DIR START 2 SWITCH FIRE 2 SWITCH TRACKBALL VERT COUNT OPTION SWITCH 2
2010	0	1	0	0	0				0	1							D	D	D	D	D	D	D	COIN SWITCHES SLAM SWITCH JOYSTICK POSITIONS
2011	0	1	0	0	0				0	1							D	D	D	D	D	D	D	SELF-TEST SWITCH CABINET SELECT
2030	0	1	0	0	0				1	1							D	D	D	D	D	D	D	EAROMRD
2480-248F	0	1	0	0	1	0	0	1			0	A	A	A	A		W	D	D	D	D	D	D	STAMP COLOR RAM
2490-249F	0	1	0	0	1	0	0	1			1	A	A	A	A		W	D	D	D	D	D	D	MOTION OBJECT COLOR RAM
2501	0	1	0	0	1	0	1	0				0	0	1			W	D						COIN CNTR L
2502	0	1	0	0	1	0	1	0				0	1	0			W	D						COIN CNTR R
2503	0	1	0	0	1	0	1	0				0	1	1			W	D						START LED 1
2504	0	1	0	0	1	0	1	0				1	0	0			W	D						START LED 2
2505	0	1	0	0	1	0	1	0				1	0	1			W	D						TRACKBALL ENABLE (TBEN)
2506	0	1	0	0	1	0	1	0				1	1	0			W	D						VIDEO ROTATE (VIDROT)
2507	0	1	0	0	1	0	1	0				1	1	1			W	D						CONTROL SELECT (CNTRLSEL)
2600	0	1	0	0	1	1	0	0								W								I ₂ ORES
2680	0	1	0	0	1	1	0	1								W								WATCHDOG
2700	0	1	0	0	1	1	1	0								W								EAROMCON
2780	0	1	0	0	1	1	1	1								W	D	D	D	D	D	D	D	EAROMWR
300-3FFF	0	1	1	A	A	A	A	A	A	A	A	A	A	A		R	D	D	D	D	D	D	D	ROM (NOT USED)
400-7FFF	1	A	A	A	A	A	A	A	A	A	A	A	A	A		R	D	D	D	D	D	D	D	ROM

Schematic Reference Designators and Symbols

Logic symbols depict the logic function performed by that particular device and may differ from the manufacturer's data.

REFERENCE DESIGNATORS:

C Capacitor
CR Diode, signal or rectifier
F Fuse
J Connector

L Inductor, fixed or variable
LS Speaker
P Connector
Q Transistor or silicon-controlled rectifier

R Resistor, fixed or variable
S Switch
T Transformer
TP Twisted wire pair
VR Voltage regulator
Y Crystal

WIRE COLORS:

R	Red
GN	Green
Y	Yellow
W	White
BU	Blue
BN	Brown
BK	Black
OR	Orange
V	Violet
GY	Gray

Electrical components shown on the schematic diagrams are in the following units unless otherwise noted:

Capacitors = microfarads (μ F)
Resistors = ohms (Ω)
Inductors = microhenrys (μ H)

SYMBOLS:



Ground



PCB edge connector pad



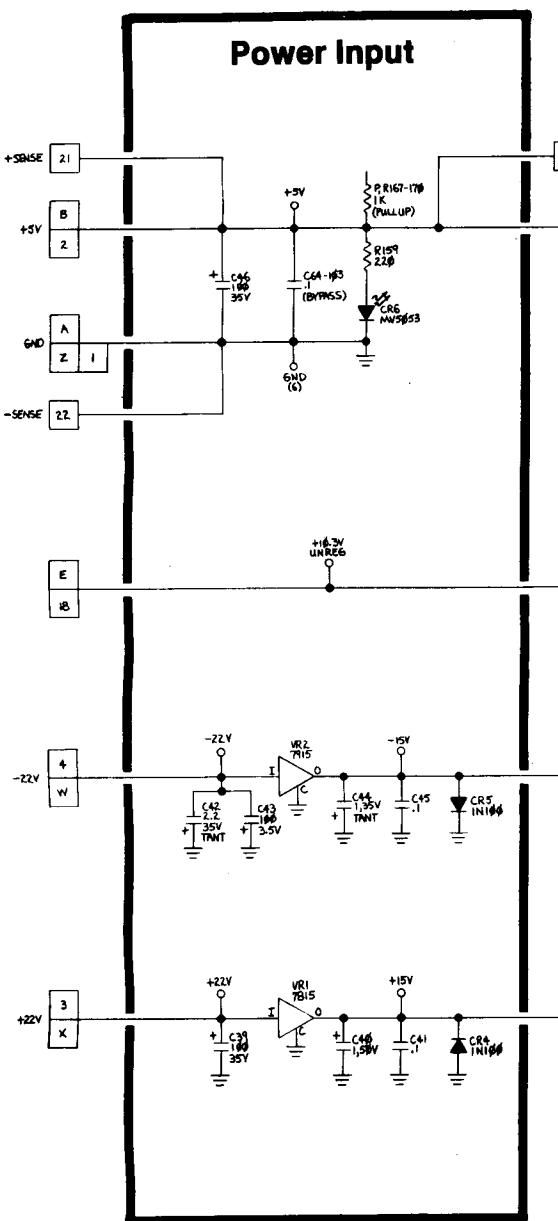
Test Point

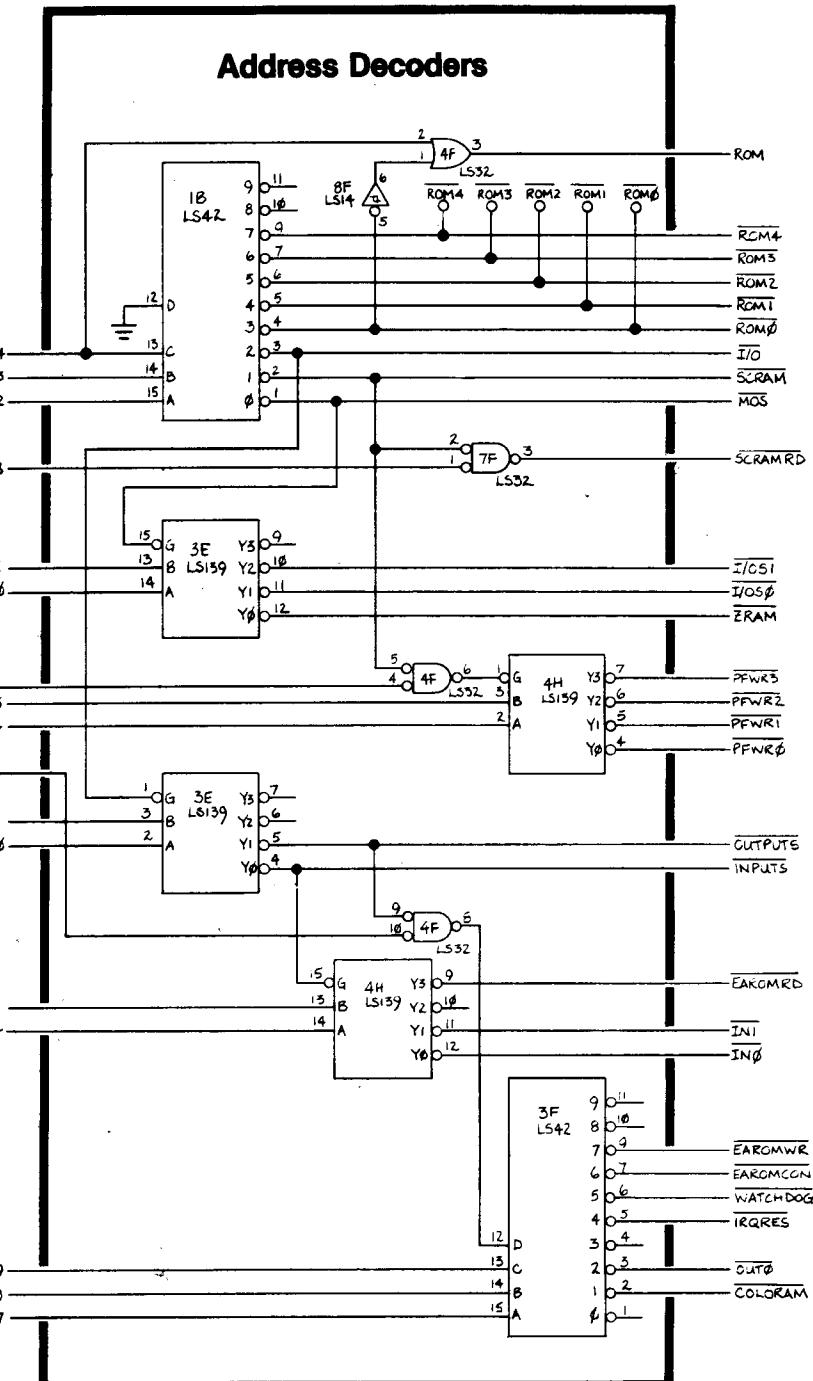
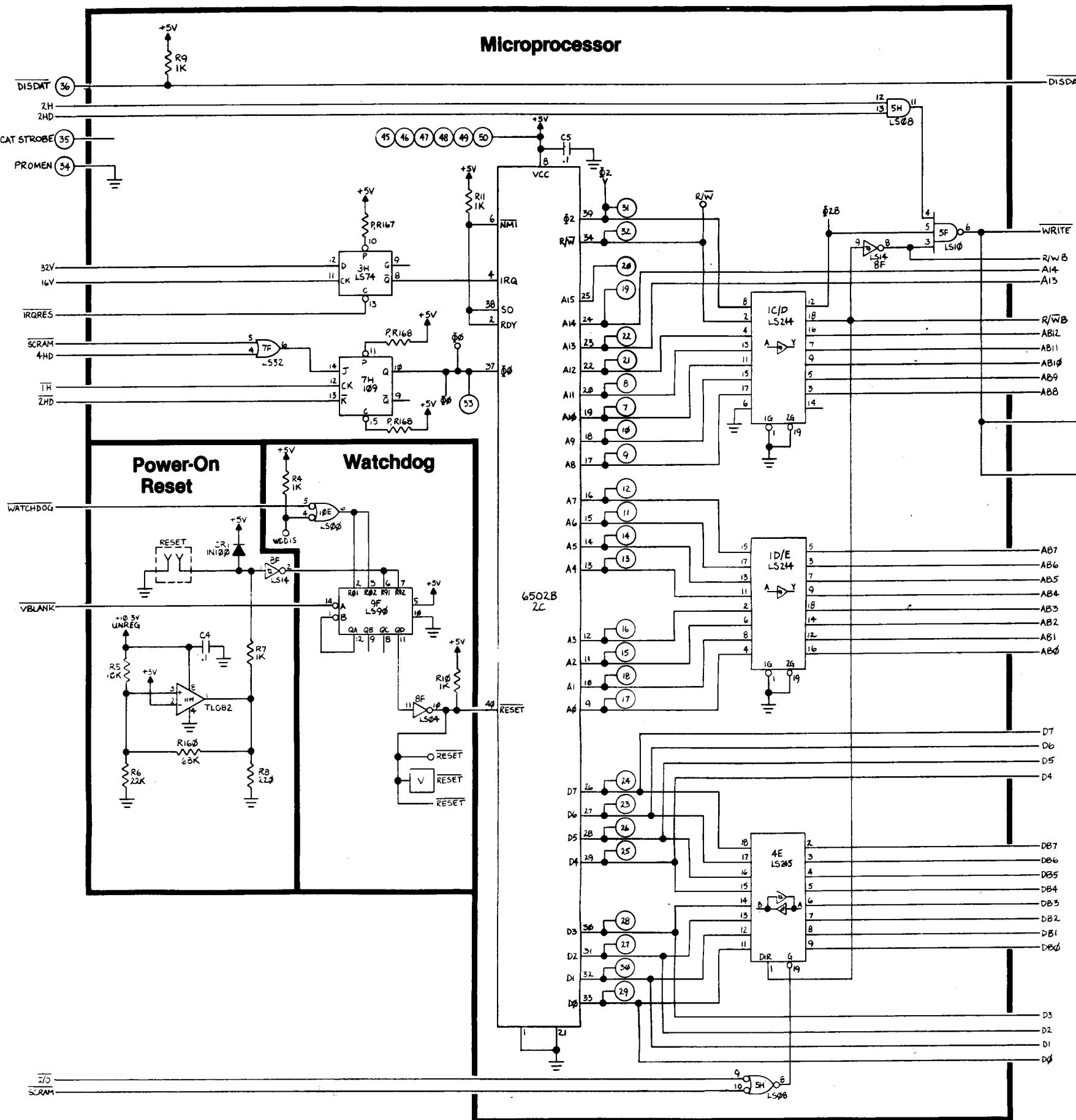


PCB test connector pad

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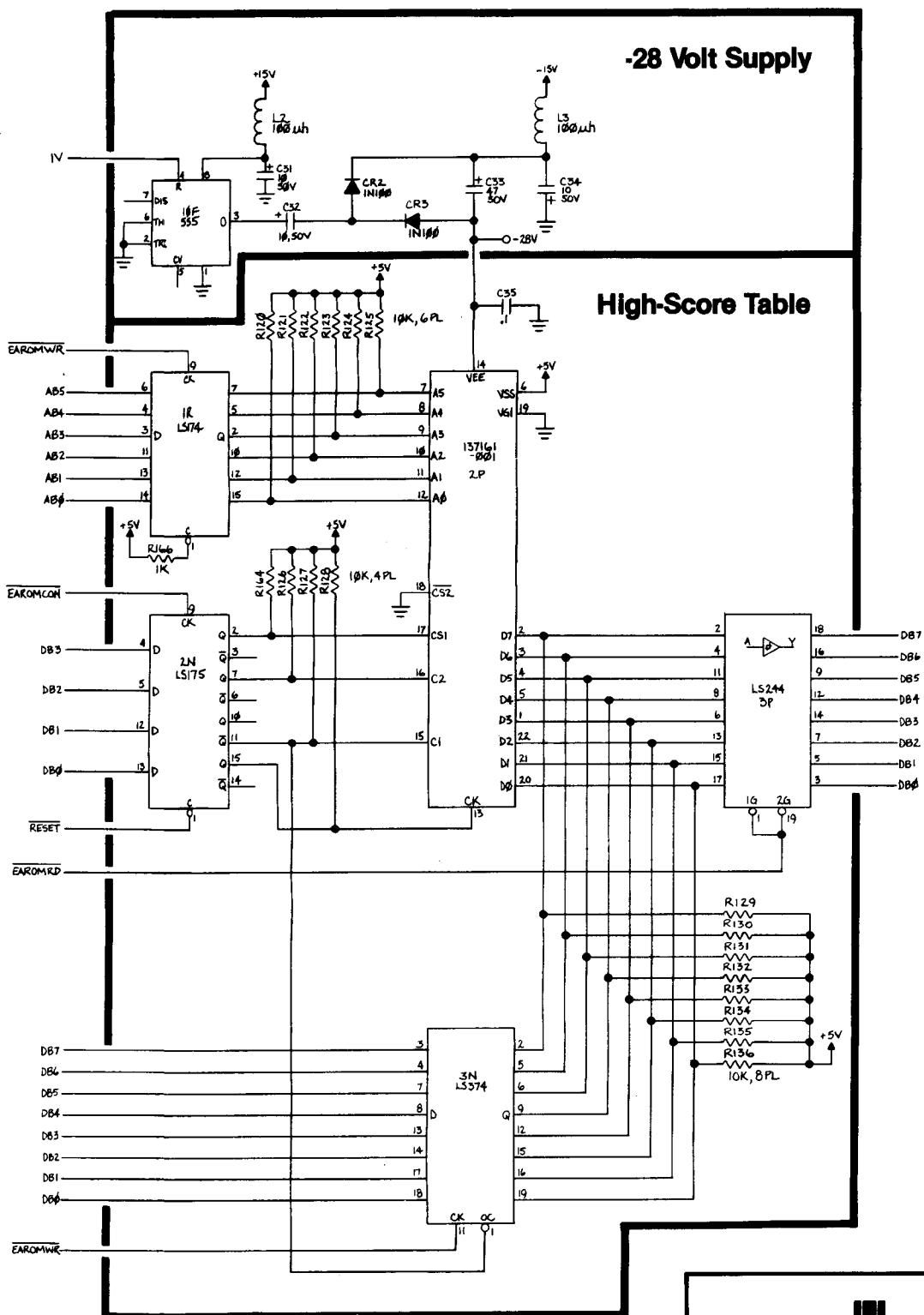
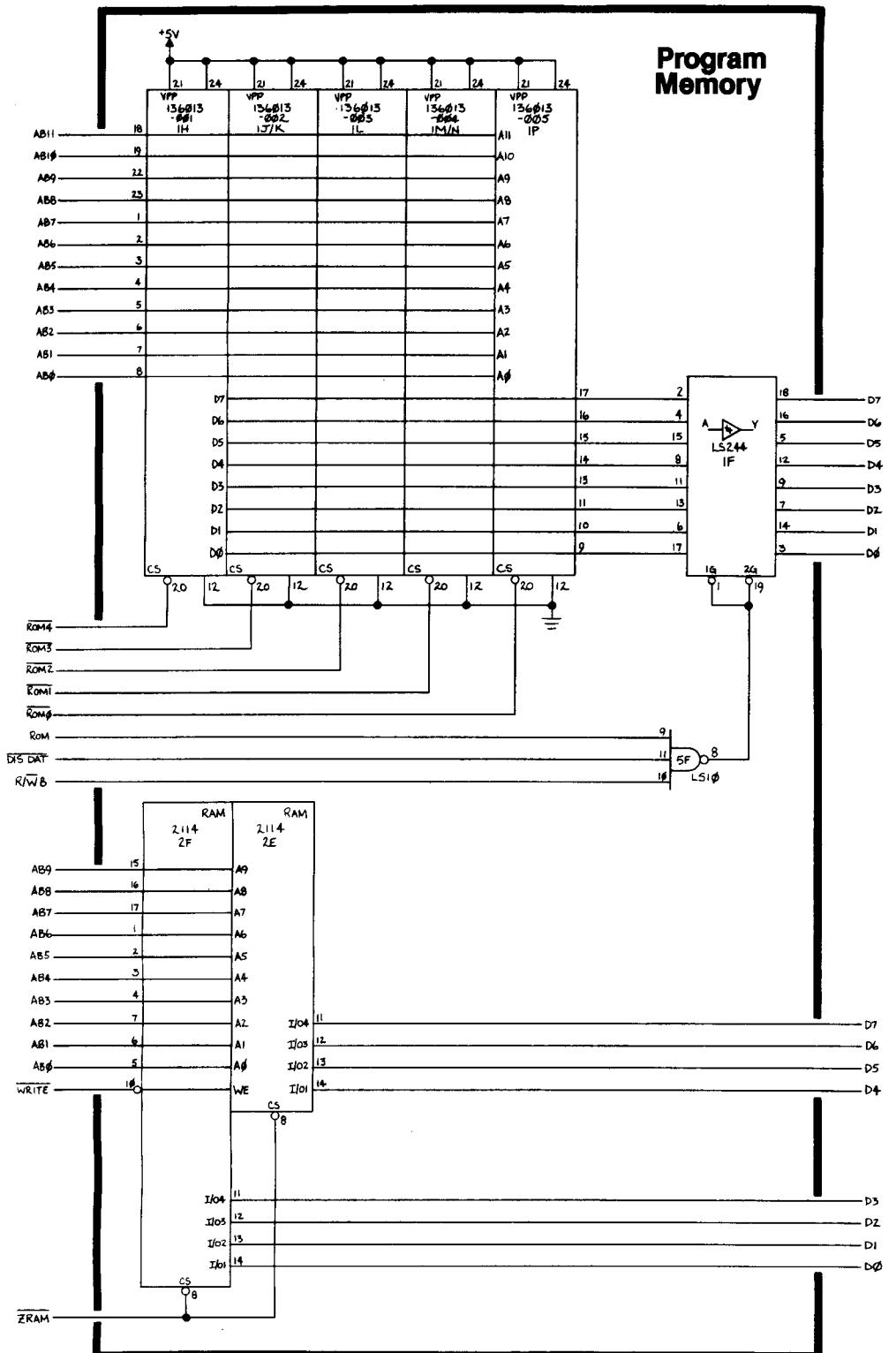
Millipede™ Memory Map and Schematic Notes





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Millipede™ PCB Schematic Diagram

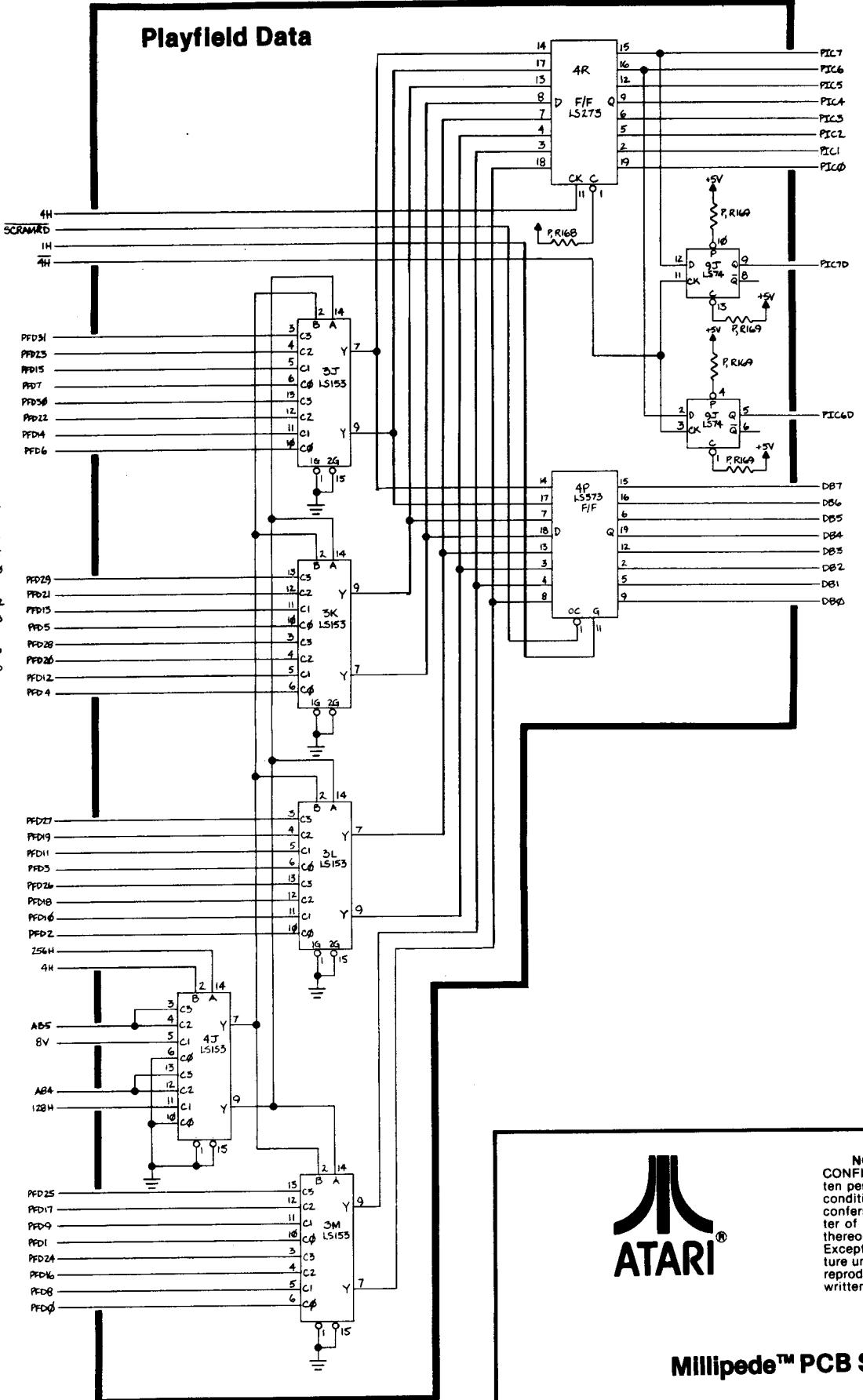
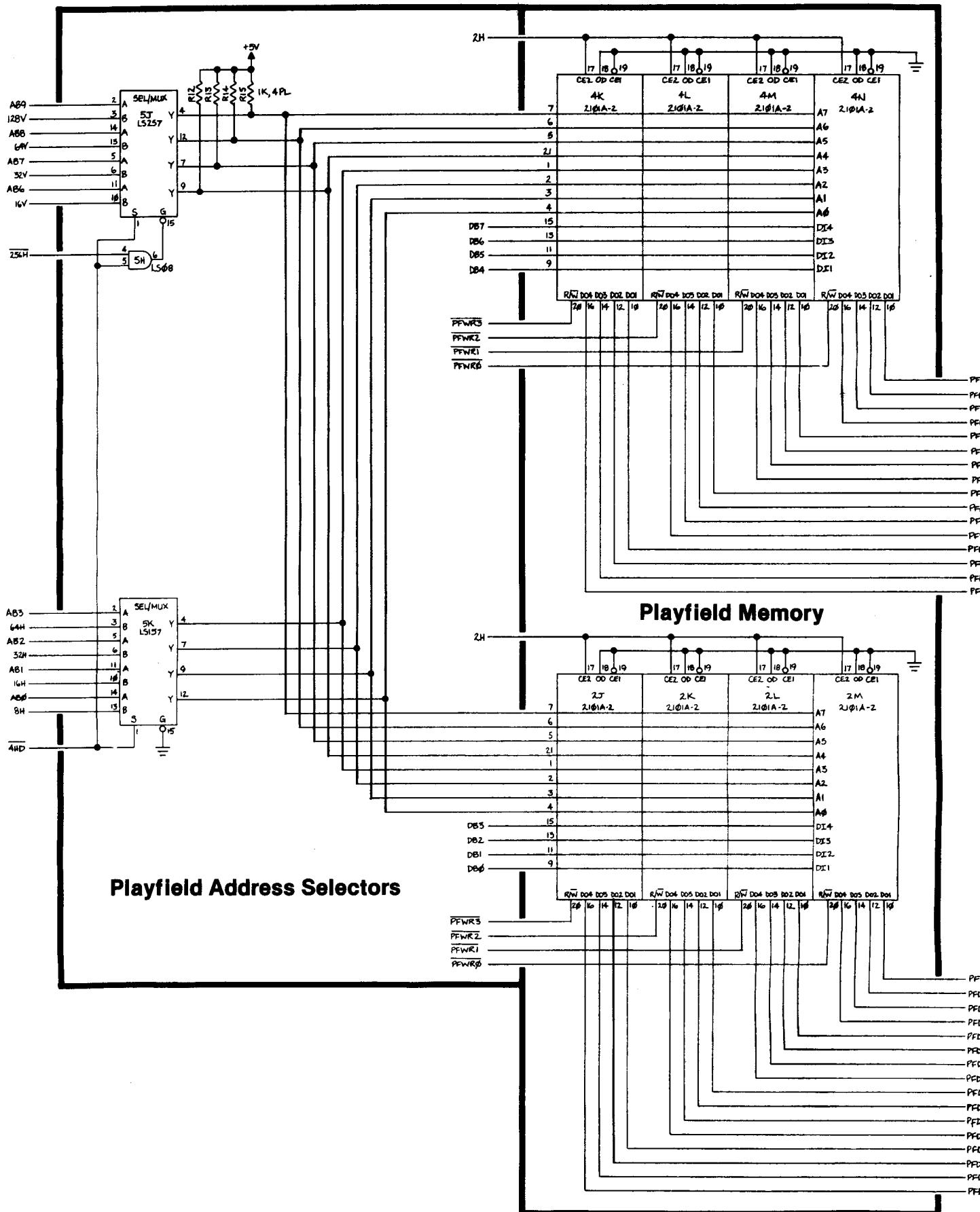


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Millipede™ PCB Schematic Diagram

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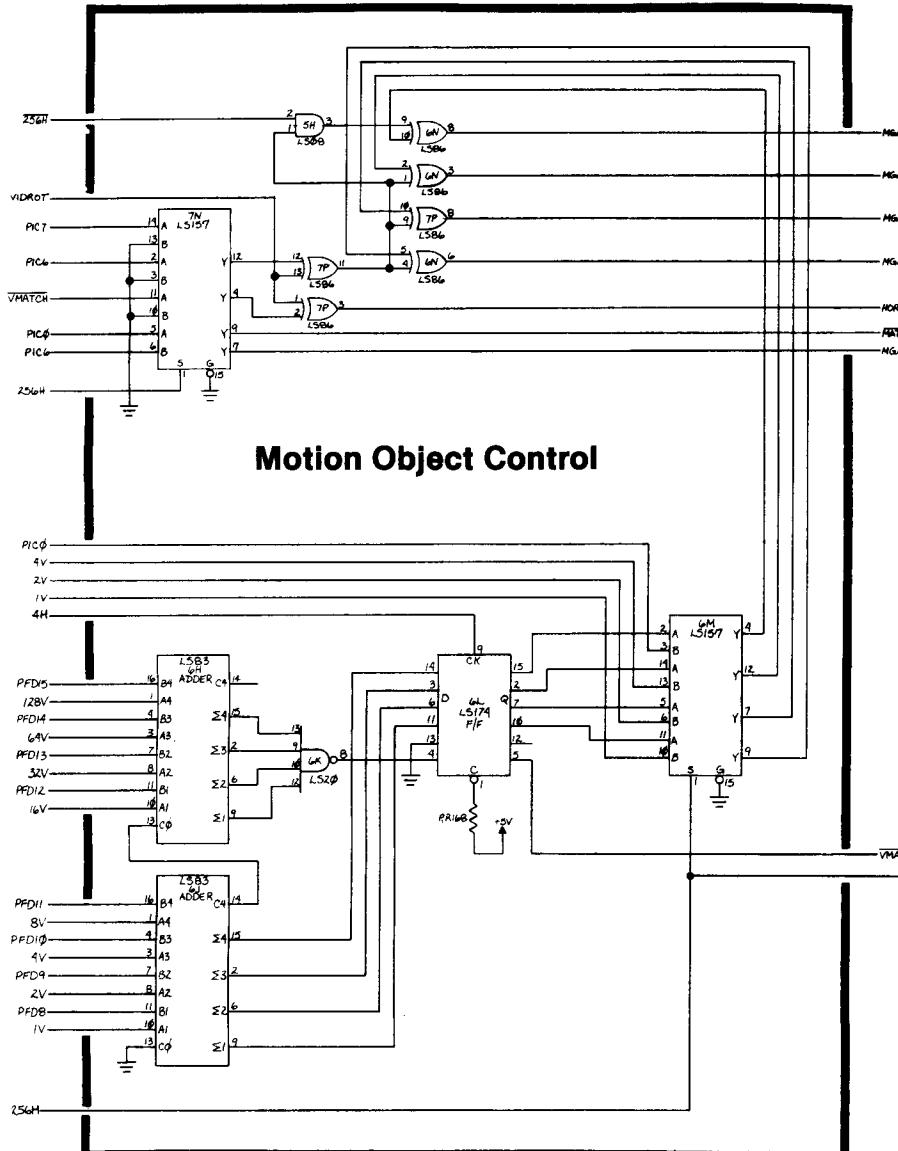


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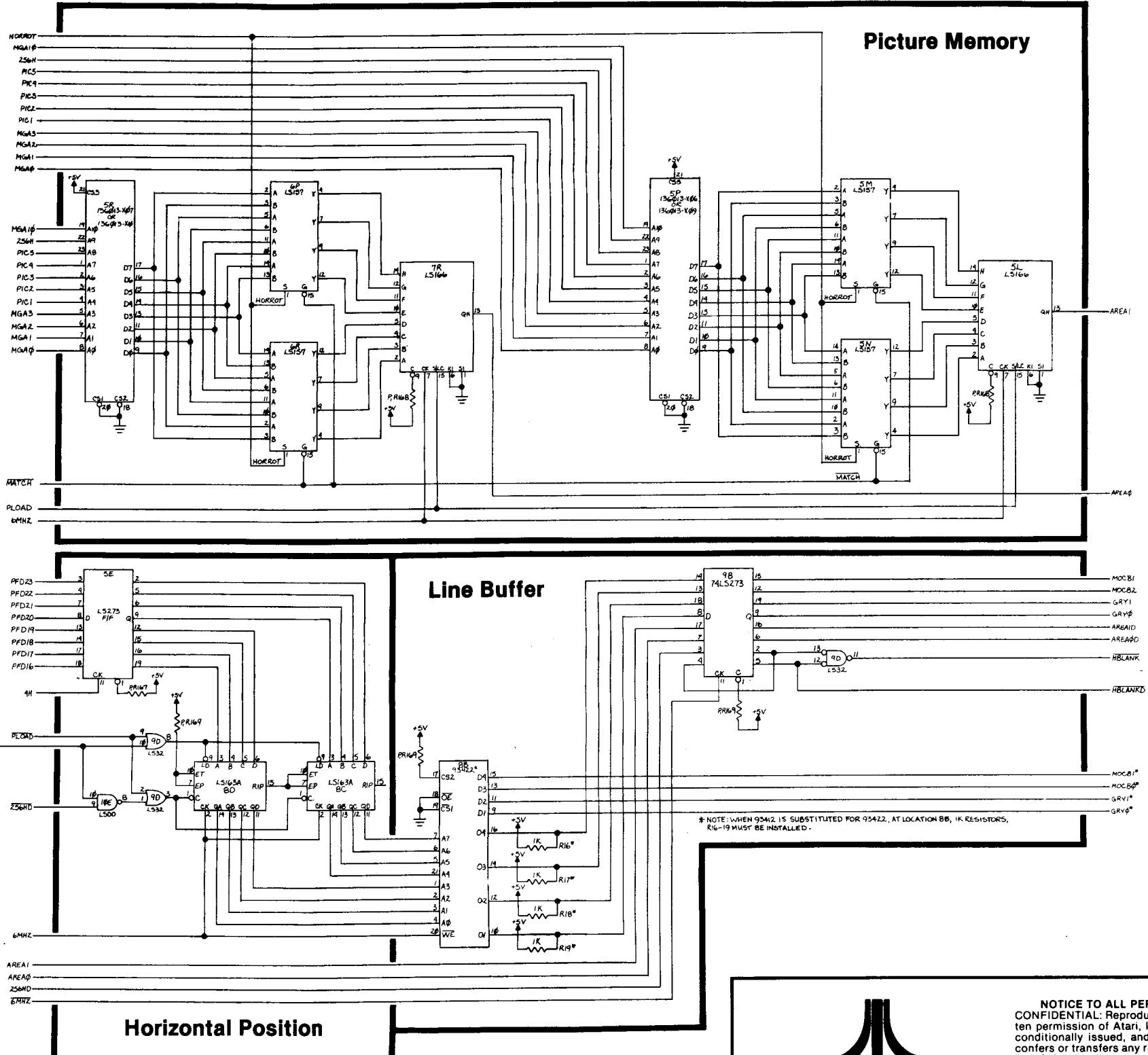
Millipede™ PCB Schematic Diagram

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Motion Object Control



Horizontal Position

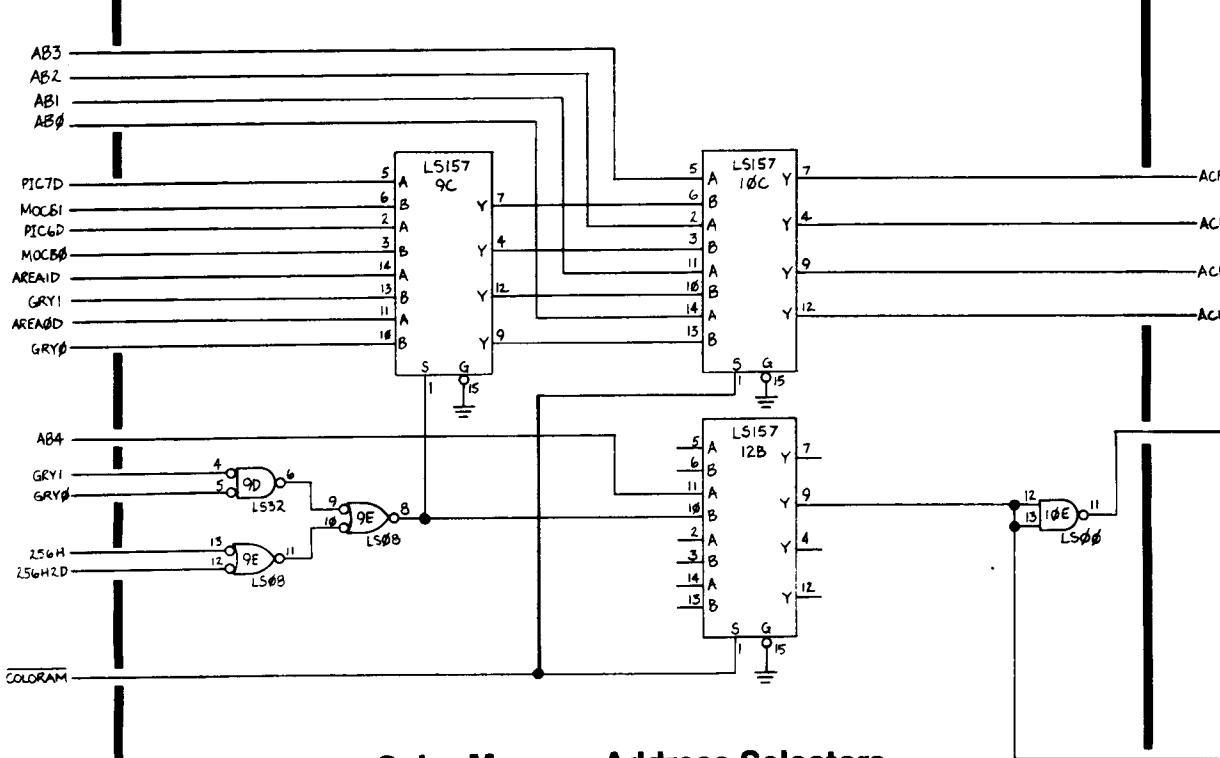


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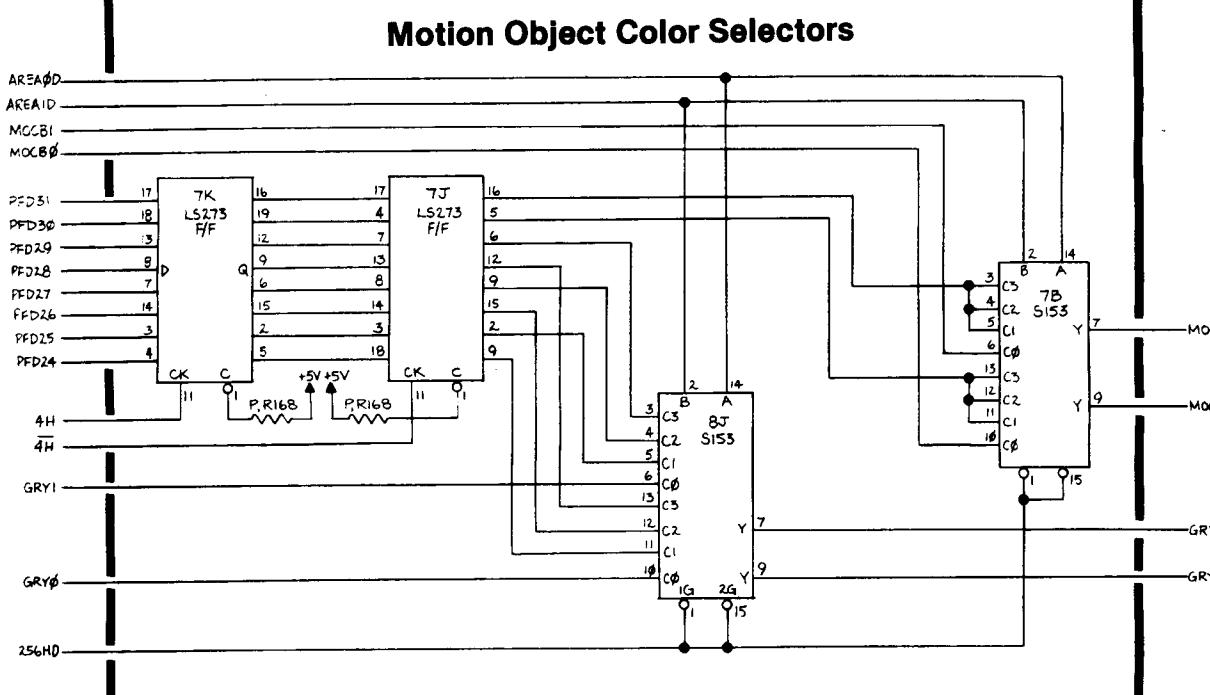
Millipede™ PCB Schematic Diagram

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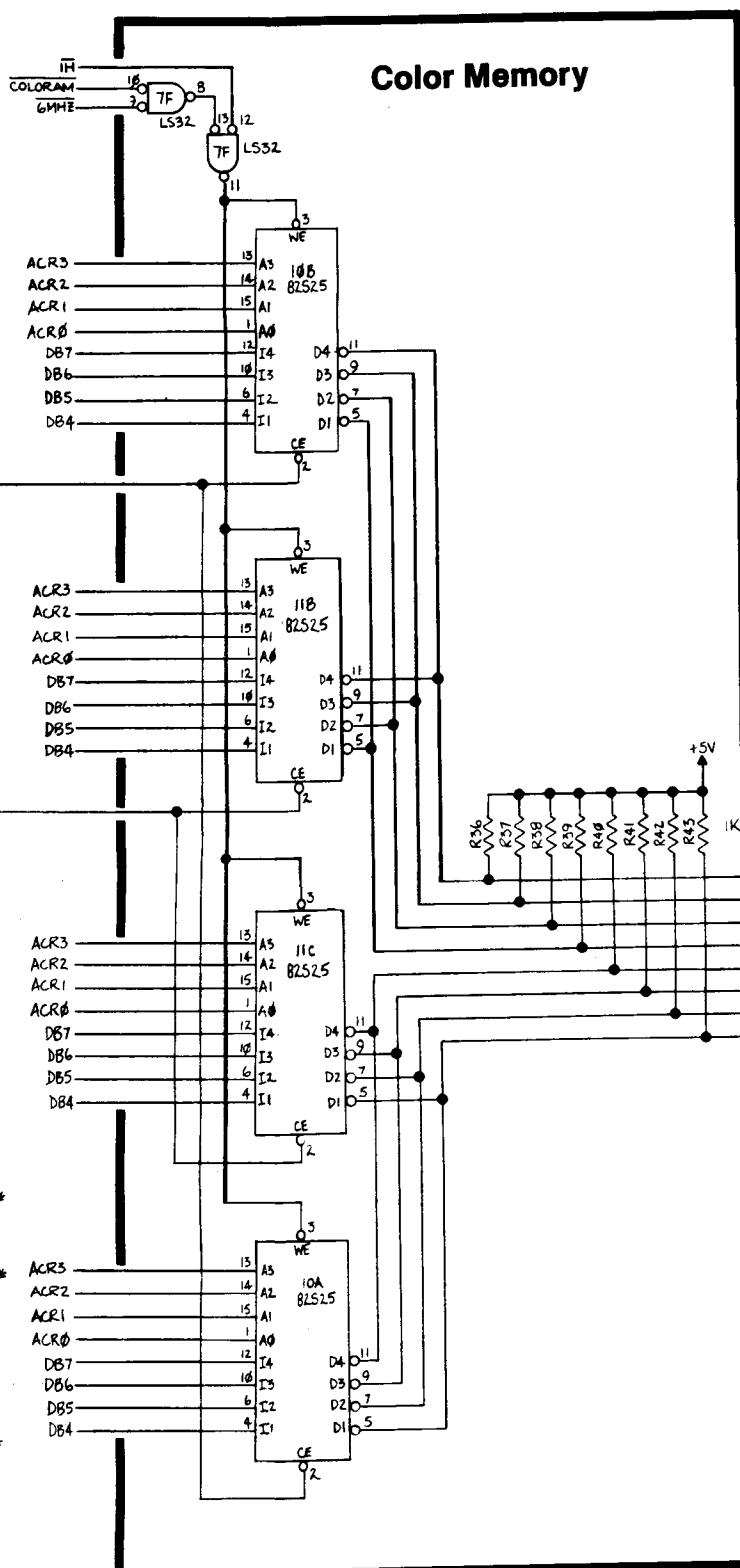
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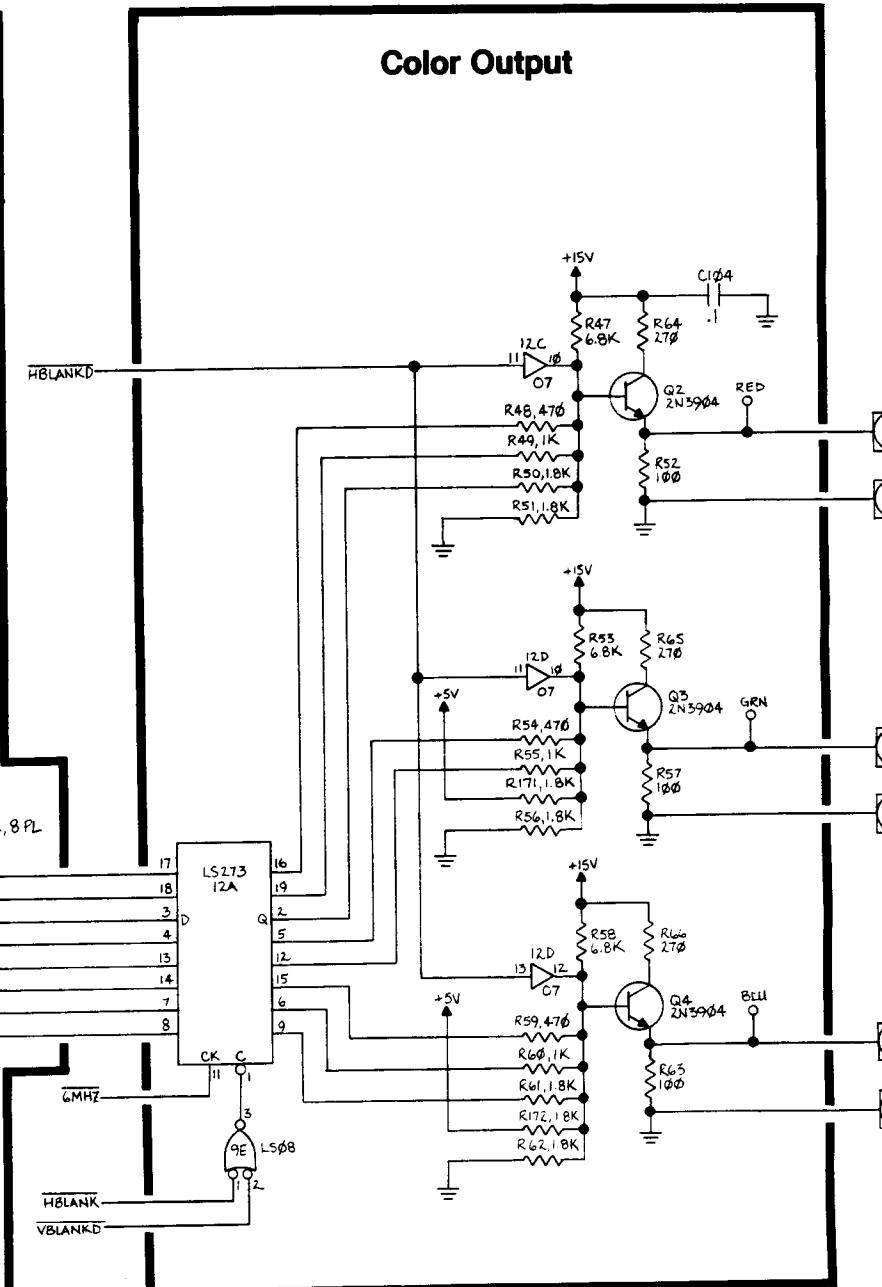
Color Memory Address Selectors



Motion Object Color Selectors



Color Memory

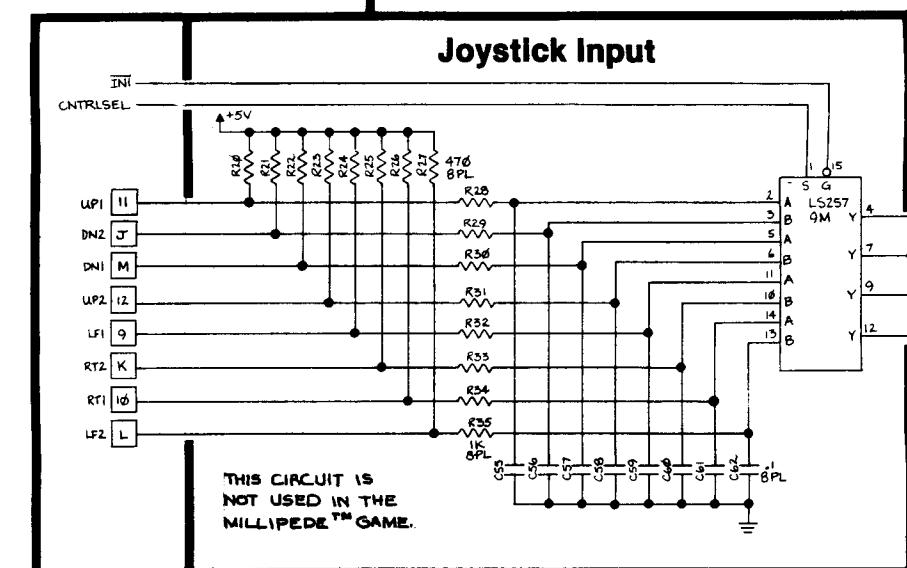
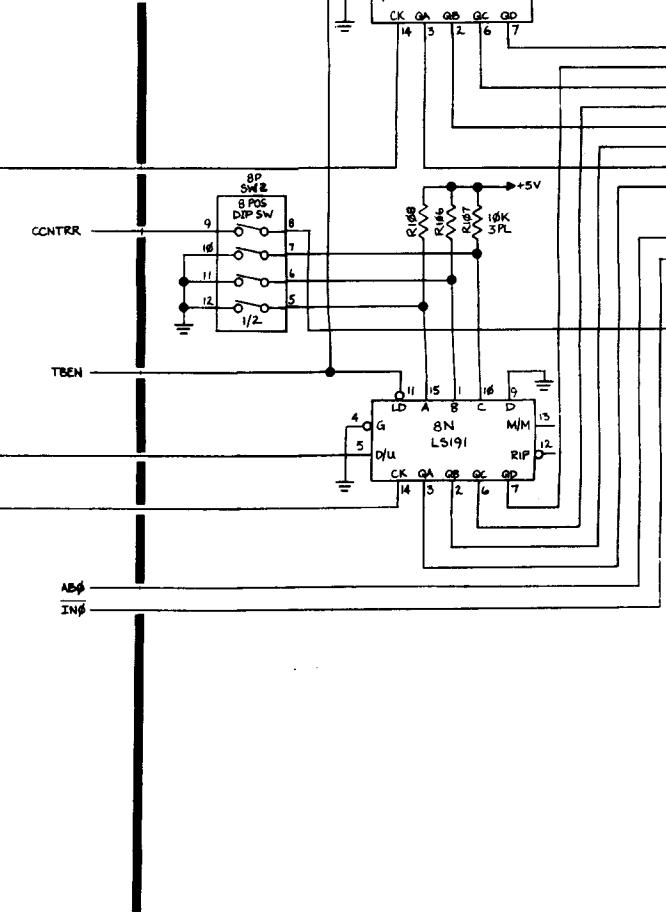
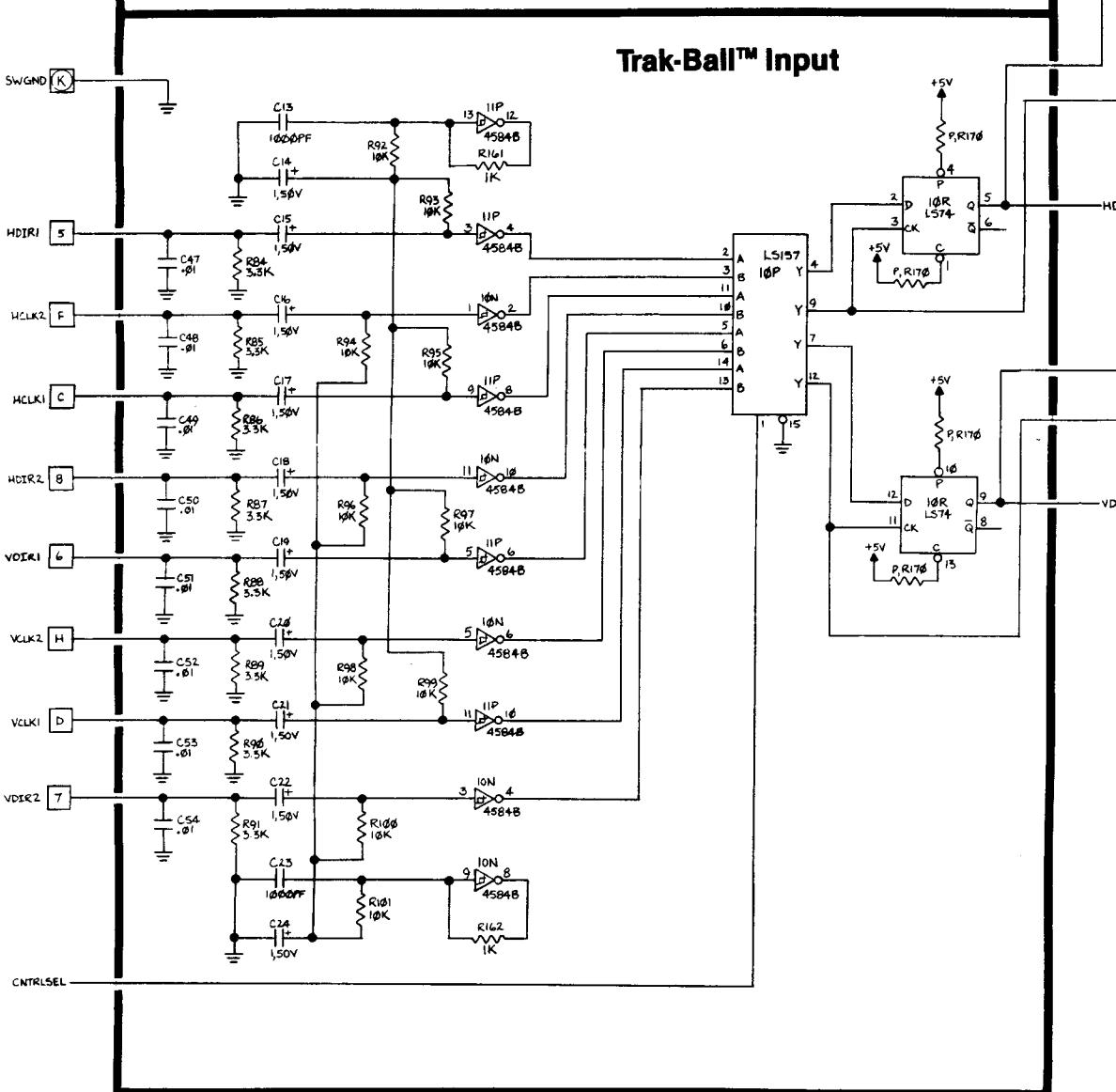
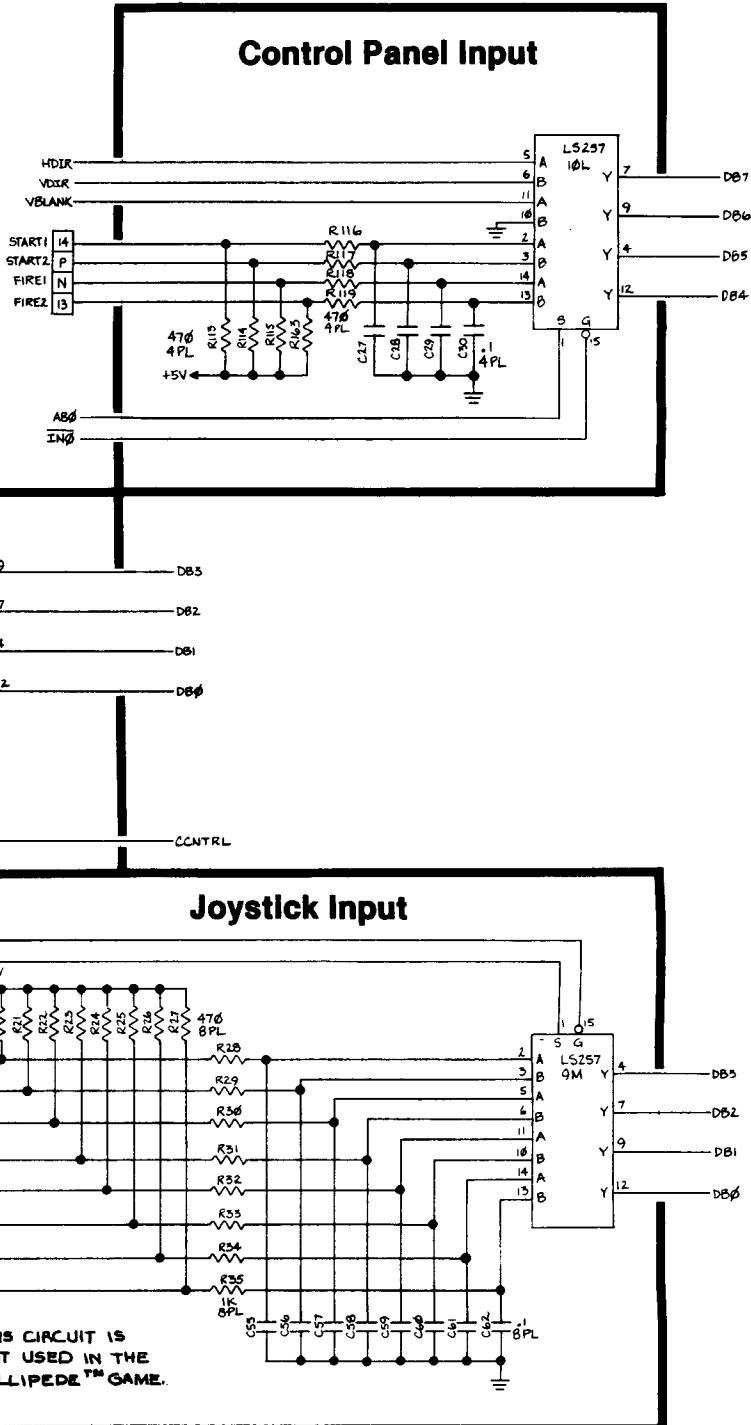
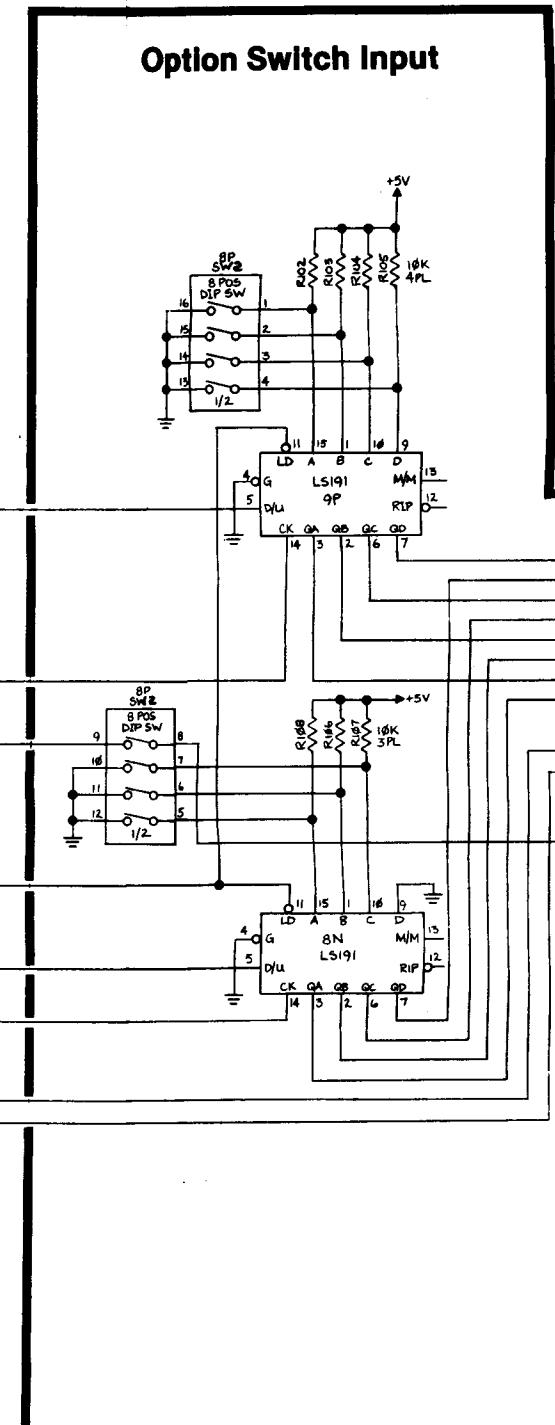
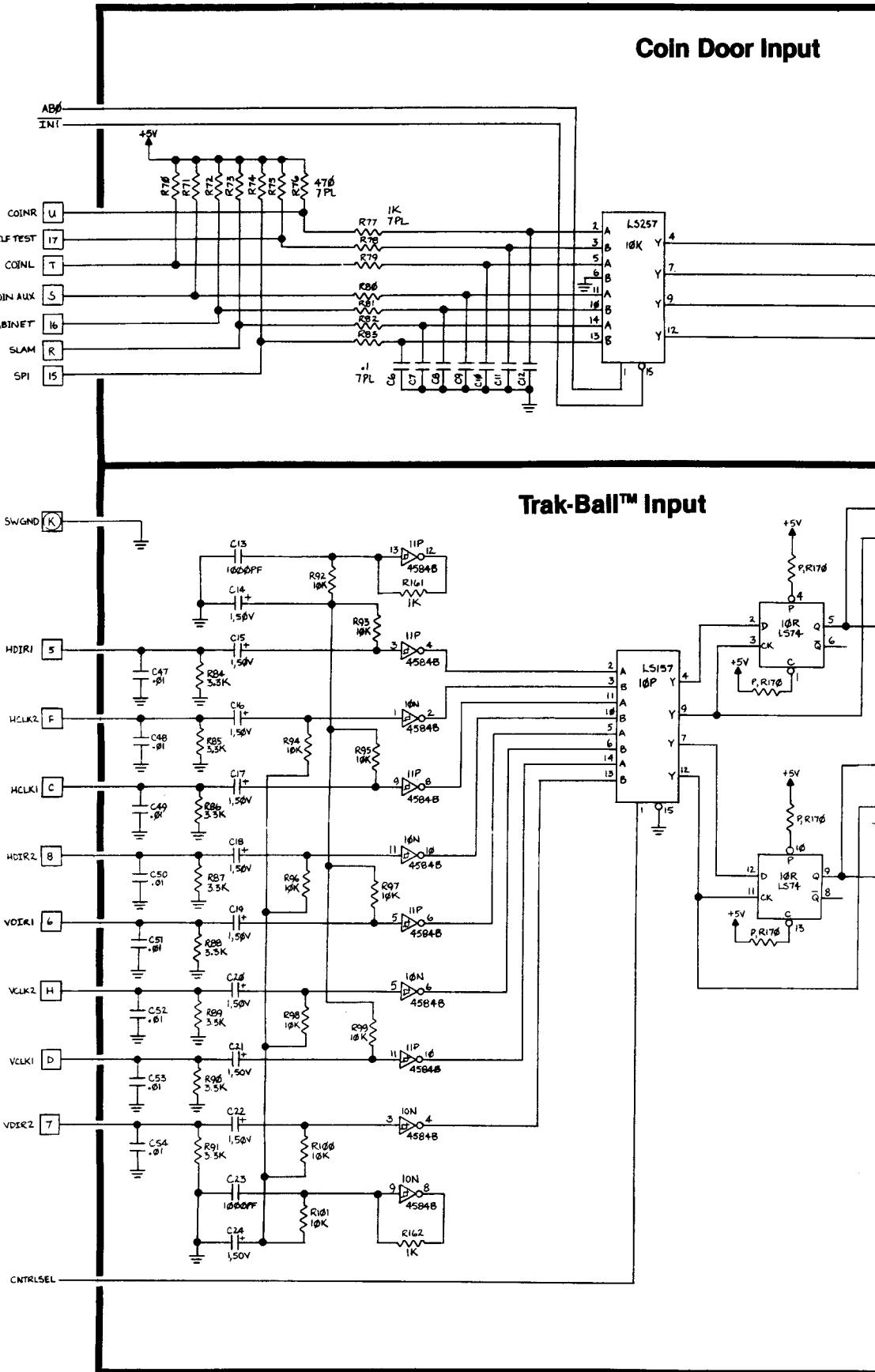


Color Output



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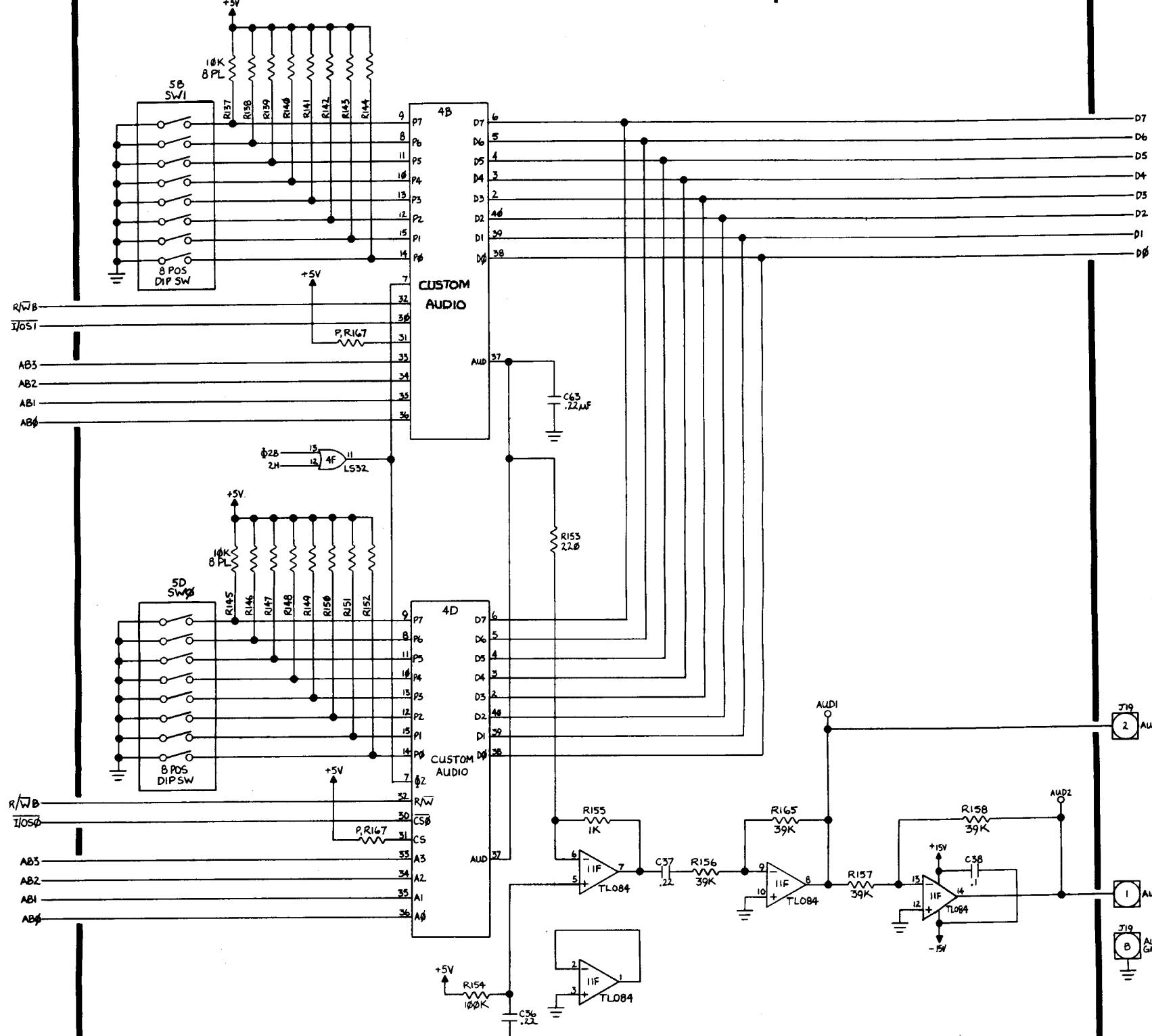
Millipede™ PCB Schematic Diagram



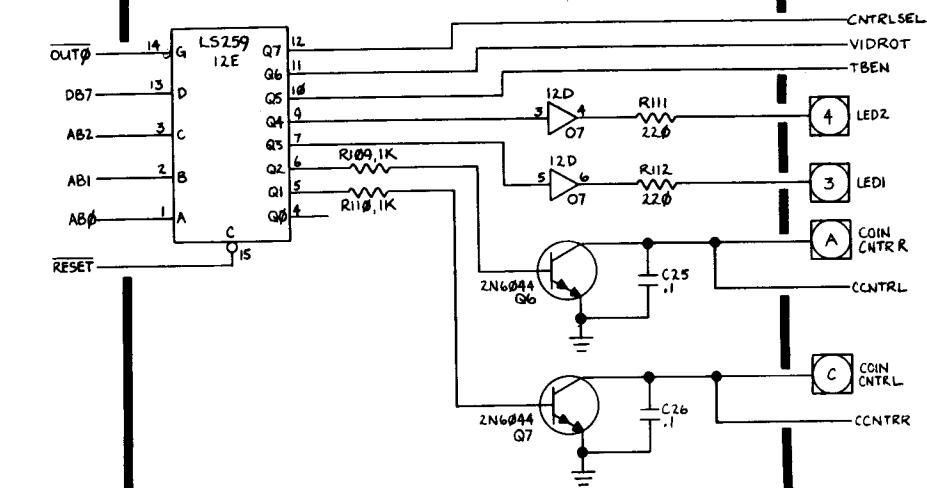
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Millipede™ PCB Schematic Diagram

Audio Output



Coin Counter & LED Output



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